


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of David V. Goeddel and Mike Rothe Serial No.: 08/446,915 Filed: 22 May 1995 For: Tumor Necrosis Factor Receptor - Associated Factors	Group Art Unit: 1812 Examiner: J. Ulm CERTIFICATE OF MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner of Patents, Washington, D.C. 20231 on October 3, 1997  _____ Aida A. Miclat
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PETITION TO ACCEPT PHOTOGRAPH AS DRAWING

37 CFR §1.84(b)

BOX ISSUE FEE
Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

1. Petition is hereby made to accept a photograph in this case.
2. Three (3) copies of the photograph of Figures 1, 2a, 2b, 3, 4, 5, 6a, 6b, 7, 8, 9, 15a, 15b, 16 and 17, are submitted herewith. It is submitted that photographs are the only medium by which to disclose certain aspects of the subject matter sought to be patented in this application.
3. The petition fee under 37 CFR 1.17(h) of \$130.00 is to be charged to Deposit Account No. 07-0630. Please charge any deficiency or credit any overpayment to Deposit Account No. 07-0630. A

12/02/1997 MPEOPLES 00000026 DAN:070630 00446915
01 FC:122 duplicate copy of this sheet is enclosed.
150-0000

Respectfully submitted,
GENENTECH, INC.

Date: October 3, 1997

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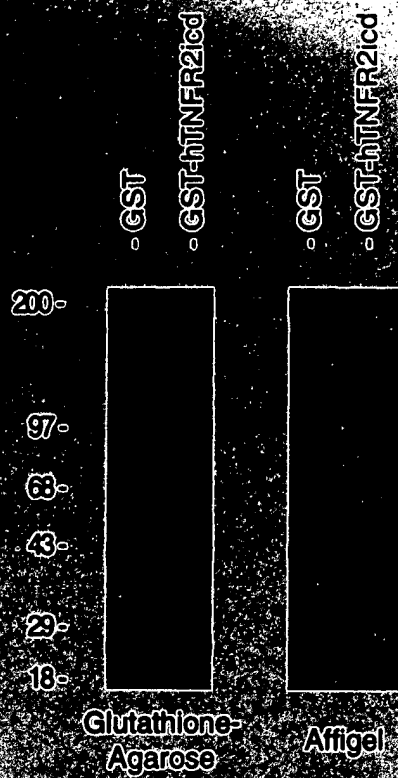


FIG. 4

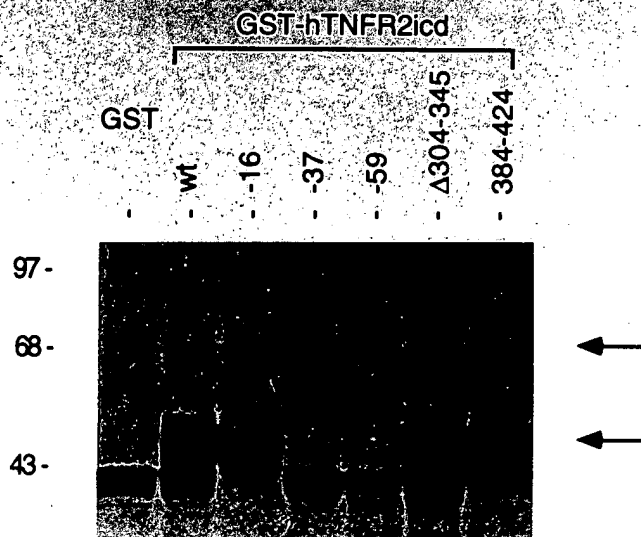


FIG. 5

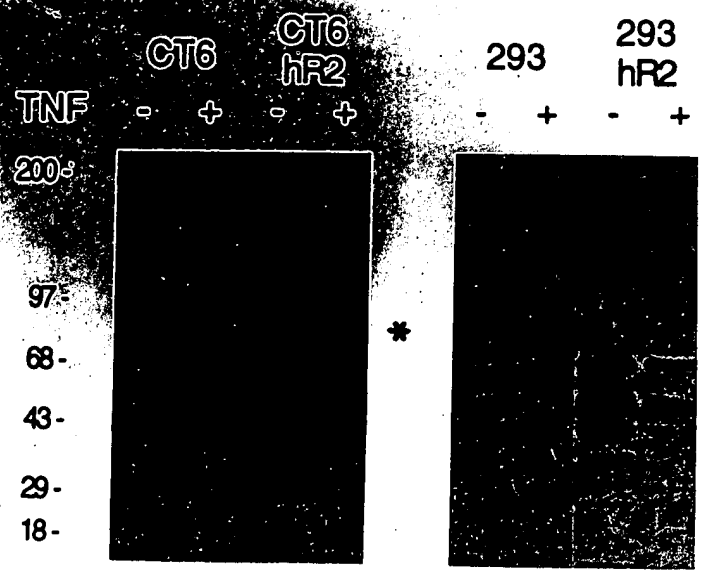


FIG. 2a

CT6
FIG. 2b

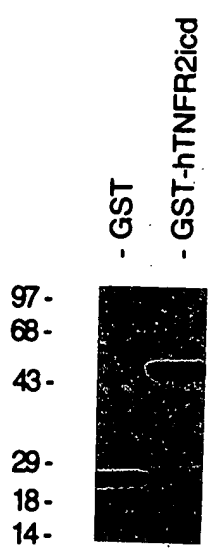


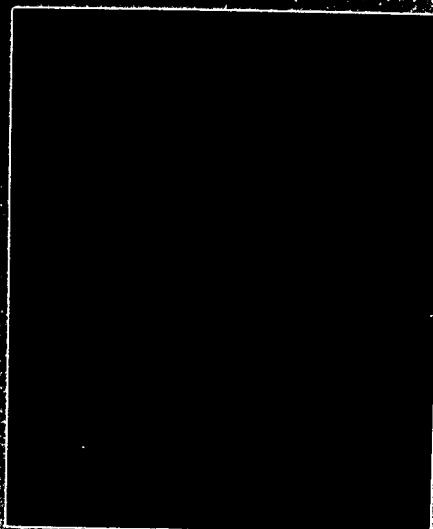
FIG. 3

5741667

Preliminary
Anti-mTNF-R2
Preliminary
Anti-mTNF-R2
Preliminary
Anti-mTNF-R2
Preliminary
Anti-mTNF-R2

NF- κ B Probe	wt	wt	mt	mt	wt	wt	wt	wt
Competitor	-	-	-	-	mt	mt	AP-1	

B>



F>

FIG.1

APPROVED	O.G. FIG.	
BY:	CLASS	SUBCLASS
RAFTSMAN		

	293			293-hR2			
Competitor	-	GST	wt	-	GST	GST-hTNFR2icd	
						wt	-16 -37 -59

FIG. 6a

97-
68-
43-
29-

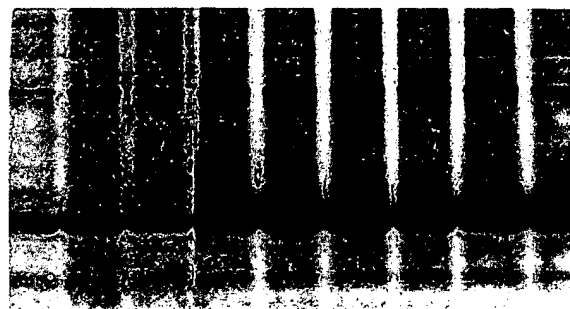


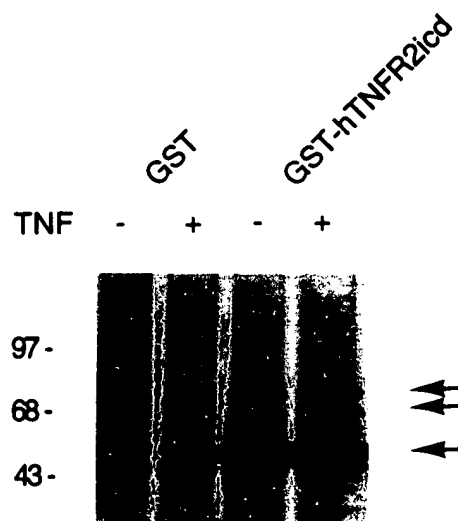
FIG. 6b

68-



CT6

FIG. 7



ED	O.G. FIG
CLASS	SUBCLASS
DNA	MAN

		Cytoplasm					Total	
							Membrane	Extract
GST	+	-	+	-	+	-	+	-
GST-hR2icd	-	+	-	+	-	+	-	+

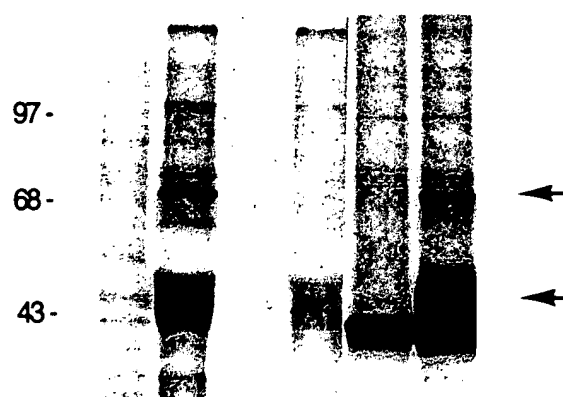


FIG. 8

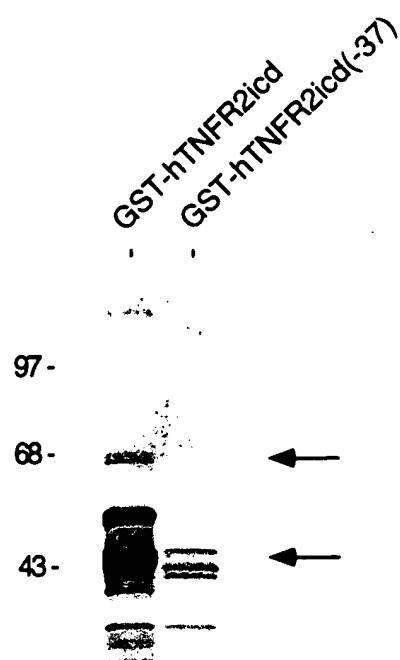


FIG. 9

APPROVED	O.G. FIG.	CLASS	SUBCLASS
By			
DRAFTSMAN			

1 CCCAGCCCGGTTCTCTGCCCCAAGGACGCTACCGCCCAATGCGAGCAGAAAGGCGGCACAGATACAGAAAGT
74 GAGGCTCAGACATATTTGAAGACCGTGTGACATAGGGTAGCCAATGACAGTGTGAGAAAGTGACATTACTCAG
149 GCCACCCAGATATCTGGAAGACCCAGAACCCCTGGAGATTCCCATCAGAAAGACCTTCTGGCCACCTGAAACCCC
1 Meta1aSerSerSerSer1aProASP61uASng1uPheg1nPheg1uCySProPro1aProCySg1nASPPro
224 AAGATGGCTCCAGCTCAGCCCTGATGAACAGAGTTTCAATTTGGTTGCCCCCTGCTCCCTGCCAGGACCCA
25 SerG1uProArqValleuCySCysThr1aCysleuSerG1uASnleuArqASPASP61uASPArg1leCySPro
299 TCGGAGCCAGAGTTCTCTGCTGCACAGCCTGTCTCTCTGAGAACCTGAGAGATGATGAGGATCGGATCTGTCT
50 LysCysArgAlaASPsnleuH1sProValSerProG1ySerProleuThrg1ng1uLysValH1sSerAspVal
374 AAATGCAGAGCAGCAACCTCCATCTGTGAAGCCCAAGGAAGCCCTTGACTCAGGAGAGGTTCACTCTGATGTA
75 Alag1uAlag1u1leMetCysProPhe1ag1yValG1yCysSerPhe1ysG1ySerProG1nSerMetG1ng1u
449 GCTGAGGCTGAATCATGTGCCCTTTGCAGGTGTGGCTGTTCCTTCAAGGGGAGCCACCAATCCATGCAAGGAG
100 HisG1uAla1ThrSerG1nSerSerH1sleuTyrlleuleuleuAlaValleuLysG1uTrpLysSerSerProG1y
524 CATGAGGCTACCTCCAGTCTCTCCACCTGTACTGCTGCTGGCGGTCCTTAAAGGAGTGGAAATCCTCACCAGGC
125 SerAsnleuG1ySerAlaProMeta1aleuG1uArgAsnleuSerG1uleuG1nleuG1nAla1aValaG1uAla
599 TCCAACCTAGGGTCTGCACCCATGGCAGTGGAGCGGAACCTGTCAAGAGCTGCAAGCTTCAAGCAAGCTGTGGAAAGCG
150 ThrG1yASPleuG1uValASPcysTyrlArqAlaProCysCysG1uSerG1ng1uG1uleuAlaleuG1nH1sleu
674 ACAAGGGAGCTGGAAGG1AGACTGCTACCGGGACCTTGTCTGTGAAGAGCCAGGAAGAACTGGCCCTGCAGCACCCTG
175 ValLysG1uLysleuLeuAlag1nleuG1uG1uLysleuArqValPheAlaAsn1leVala1aValleuAsnLys
749 GTGAAGGAGAGAGCTGCTGAGCTGGAAGGAGAAAGCTGCGTGTGTTTGGCAACATTGTGTCTCAACCAAG
200 G1uValG1uAlaSerH1sleuAlaleuAlaAlaSer1leH1sG1nSerG1nleuASPArgG1uH1sleuLeuSer
824 GAAGTGGAGGCTTCCACCTGGCAGCTGGCCGCTCCATCCACACAGAGCCAGTTGGACCGAGAGCACCCTCGAGC
225 LeuG1uG1nArqValValG1uleuG1ng1nThrleuAlag1nLysASP61nValleuG1yLysleuG1uH1sSer
899 TTGGAGCAGAGGCTGGTGGAAATTACAGCAAAACCCCTGGCTCAAAAAGAGCCAGGTCCTGGGCAAGCTTGAGCACAGT

FIG. 10a

APPROVED	O.G FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

250 LeuArqlleuMetgluglualaserPheAspglyThrPheleuTrpIysIleThrAsnValThrLysArgCysHis
974 CTGGACCTCATGGAGGAGGCCATCTTGATGGTACTTCTGTGGAGATCACCAATGTCAACCAAGCGGTGGCAC
275 GluSerValCysGlyArgThrValSerleuPheSerProAlaPheTyrThrAlaLysTyrGlyTyrLysLeuCys
1049 GAATCAAGTGTGGCCGGACTGTCAGCCCTCTCTCCAGCTTTACACTGGCCAAGTATGGTTACAAGTTGTGC
300 LeuArqlleuTyrLeuAsnGlyVasDgIySerGlyLysLysThrHisLeuSerleuPheIleValIleMetArgGly
1124 CTGGCTTGTACCTGAACGGGGATGGCTCAGGCAAGAGAACCACCCTGTCCCTCTTCATCGTGATCATGAGAGGA
325 GluTyrAspAlaLeuLeuProIrrpProPheArgAsnLysValThrPheMetLeuLeuAspGlnAsnAsnArgGly
1199 GAATACGATGCTCTCTGGCCCTTTCAGGAACACAGGTCACCTTATGCTACTTGACCAGAACACACCGAGAG
350 HisAlaIleAspAlaPheArgProAspLeuSerSerAlaSerPheGlnArgProGlnSerGluThrAsnValAla
1274 CATGCTATTGATGCCCTCCGGGCTGACCTGAGCTCAGGCTCTCTTCAGCGGGCCACAGAGTGAAGACCAACGTTGCC
375 SerGlyCysProleuPhePheProleuSerLysLeuGlnSerProLysHisAlaTyrValLysAspAspThrMet
1349 AGCGGCTGCCGCTCTTCTTCCCTTCAGCAAGCTGACAGTCAACCACAGCAGGCTACGTCAAGATGACACAAATG

400 PheLeuLysCysIleValAspThrSerAla
1424 TTCTCTCAAAATGCAATTGTGGACACTAGTGTAGGGATGGGGGGAGGGGGGTGTCTCTGACAGAACAGCTTAGAC
1499 TGGGGGACTTAGCTAGACAGCCAGGCCCTGCCCTGGGAGCCACAGCCACGACAAAGAGGAGCCAAAGGCT
1574 GGCATGACTTAGCGCCACAGCATGTGGTATGGCTGATGTGAAGCTGGAGAAACGTGTGGTACAGAGACAGA
1649 GTGGAGGAGAGACAGAAAGTGTCTTTTACACAGACTACAGGACACACAGAGGGCCAGCATGCCAGCAGCTTCG
1724 AATGTTGAGACAGCCATAGATCAGGATGAAGAGAGCCAGGCTGAAGCTTGGACATTGAAGCCAAAGGCTATGGGGC
1799 CTAAAGTGGAGGGGCACTCTCTACAGGACATTCCTCGAGGTCAAGGCAATAACTGGAAAAATGCCCCCATCTCT
1874 GTTCAGACTCAAAACTAGAACCCACAGGCGAGAGGGTCAGACATTAATGTGAATTAACTGGCCCTGGACTGAAGT
1949 TCCTATGTTAACAGACACGCAACAGGTAAACCCAGAAACTGCCCTGGGAAATGCTTCTGGCTGCATCTGGAGA
2024 TCTTTGATGTTTACCAGCAAAACAAATAACAAAAGCCTTGAATTGCAAAAAAATAAAAAA

FIG. 10b

APPROVED	O G FIG	
	CLASS	SUBCLASS
DRAFTSMAN		

* * * *

1 GC GCGAAGACCGTTGGGGCTTGTGGTGTGGGGGTGTAAC TCACATGGCTGCAGCCAGTGTGACTTCCCCCT
10 GlysSerLeuGluLeuLeuGlnProGlyPheSerLysThrLeuLeuGlyThrArgLeuGluAlaLysTyrLeuCys
75 GGCTCCCTAGAACTGCTACAGCTGGCTTCTCCAGACCCTCC TGGGGACCAGGTTAGAAGCCAAGTACCCTGT
35 SerAlaCysLysAsnIleLeuArgArgProPheGlnAlaGlnCysGlyHisArgTyrCysSerPheCysLeuThr
150 TCAGCCTGC AAAACA TCC TGC GGA GGCCTTCCAGGCCAGTGTGGCCACC GCTACTGCTCTTCTGCTGACC
60 SerIleLeuSerSerGlyProGlnAsnCysAlaAlaCysValTyrGluGlyLeuTyrGluGlyIleSerIle
225 AGCATCCTCAGCTCTGGGCCCCAGAACTGTGCTGTGTCTATGAAGGCCCTGTATGAAGAAAGCA TTTCTATT
85 LeuGluSerSerSerAlaPheProAspAsnAlaAlaArgArgGluValGluSerLeuProAlaValCysProAsn
300 TTAGAGAGTAGTTCGGCTTTCCAGATAACGCTGCCCGCAGAGAGGTGGAGAGCCTGCCAGCTGTCTGTCCTCAAT
110 AspGlyCysThrTrpLysGlyThrLeuLysGluTyrGluSerCysHisGluGlyLeuCysProPheLeuLeuThr
375 GATGGATGCACCTGGAAAGGGGACCTTGAAAGAA TACGAGA GCTGCCACGAAAGGACTTGGCCATTCTGCTGACG
135 GluCysProAlaCysLysGlyLeuValArgLeuSerGluLysGluHisThrGluGluGluCysProLysArg
450 GAGTGTCTGCATGTAAAGGCTTGCTCCGCTCAGCGAGAGAGGACACACACTGAGCAGGAATGCCCAAAGG
160 SerLeuSerCysGlnHisCysArgAlaProCysSerHisValAspLeuGluValHisTyrGluValCysProLys
525 AGCTTGA GCTGCCAGC ACTG CAGAGCACCCTGTAGCCACGTGGACCTGGAGGTACACTATGAGGCTTGC CCAAG
185 PheProLeuThrCysAspGlyCysGlyLysLysLysIleProArgGluThrPheGlnAspHisValArgAlaCys
600 TTTCCCTTAACCTGTGATGGCTGTGGCAAGAAGAGATCCCTCGGGAGACGTTTTCAGGACCATGTTAGAGCA TGC
210 SerLysCysArgValLeuCysArgPheHisThrValGlyCysSerGluMetValGluThrGluAsnLeuGlnAsp
675 AGCAATGCGGGGTTCTCTGCAGATTCCACACCCTTGCTGTTCAGAGATGGTGGAGACTGAGAACCTGCAGGAT
235 HisGluLeuGlnArgLeuArgGluHisLeuAlaLeuLeuLeuSerSerPheLeuGluAlaGlnAlaSerProGly
750 CATGAGCTGCAGCGGCTACGGGAAACACCTAGCCCTACTGCTGAGCTCATTTCTTGGAGGCCCCAAGCCTCTCAAGGA
260 ThrLeuAsnGlnValGlyProGluLeuLeuGlnArgCysGlnIleLeuGluGlnLysIleAlaThrPheGluAsn
825 ACCTTGAACCAAGGTGGGGCCAGAGCTACTCCAGCGGTG CAGATT TTTGGAGCAGAAAGATAGCAACCTTTGAGAAC

FIG. 11a

285 11ValAlCysValIleuAsnArggIuValGIuArqValAlaValIThrAlagIUA1aCysSerArggInHisArgIeu
900 ATTGCTGCGCTTGAACCGTGAAGTAGAGAGGGTAGCAGTGACTGCAGAGGCTTGTAGCCGGCAGCACCGGCTA
310 AspGIAspLysI1egIUA1aleuSerAsnLysValGInGInleuGIuArgSerI1egIleuLysAspLeuAla
975 GACCAGGACAAGATTGAGGCCCTGAGTAACCAAGGTGCAACAGCTGGAGAAGGAGCATCGGCCCTCAAGAACCTGGCC
335 MetAlAspLeuGIuGIuLysValSerGIuLeuGIuValSerThrTyraSpGIuValPheI1eTrpLysI1eSer
1050 ATGGCTGACCTGGAGCAGAAAGGCTCCGAGTTTGGAGATATCCACCTATGATGGGGCTTTCATCTGGAGAATCTCT
360 AspPheThrArqLysArgGInGIuAlaValAlagIyArqThrProAlaI1ePheSerProAlaPheIyThrSer
1125 GACTTCACCAGAAAGCGTCAAGAAAGCCGTAGCTGGCCGGACACCAGCTATCTTCCCCAGGCTTCTACACAAAGC
385 ArgIyrgLyTyrlYsMetCysLeuArqValIyrlYsAsnGIuAspGIyThrGIyArgGIyThrHisLeuSerLeu
1200 AGATATGGCTACAAGATGTGTACGAGTCTACTTGAATGGCGACGGCACTGGGGGGGAACCTCATCTGTCTCTC
410 PhePheValIValMetLysGIyProAsnAspAlaleuLeuGIuNTrpProPheAsnGIuLysValIThrLeuMetLeu
1275 TTCCTTGGTGATGAAGAGGCCCAATGATGCTCTGTGAGTGGCCTTTAAATCAGAAAGTAACATTGATGTTG
435 LeuAspHisAsnAsnArgGIuHisValI1eAspAlaPheArgProAspValIThrSerSerPheGInArgPro
1350 CTGGACCATAACAACCGGAGCATGTGATCGACGCATTCAAGGCCGATGTAACTCGTCCCTCCACAGAGGCCCT
1425 ValSerAspMetAsnI1eAlaSerGIyCysProLeuPheCysProValSerLysMetGIuAlaLysAsnSerTyrl
1425 GTCAGTGACATGAACATCGCCAGTGGCTGCCCCCTCTTCTGCCCTGTGTCCAAGATGGAGGCCAAGAAATTCCTAT

485 ValArgAspAspAlaI1ePheI1eLysAlaI1eValAspLeuThrGIyLeu
1500 GTCCGGGATGATGCGATCTTCATCAAGCTATTGTGGACTTAACAGGACTCTAGCCACCCCTGCTAAGATAGCA
1575 GCTCAGTGAAGAGCTGTACATTAGGCCAGCCAGGCCCTGCCACACACGGGTGGCCAGGCTTGGTGTAAATGCTG
1650 GGGAGGGCTCAGCTAGAGCCAATCACCATCACACAGAAAGGAGGAGAAAGGCTCCAGTTGGCTTCAAGTGG
1725 CAACTGAGTTGGACGGTCCACTGAGCTCAAGGGCTGGTGAAGCCGCTGGGGAAGCTTCTCAGCTTCCAATAG
1800 GAAAGCTCTGCTGTCTCTCTGTCTGGGGAAAGGAGAGACTGTAGGTGGGTGCTCAGAAAGGGCTCTCCAGA
1875 GAGAGTCTCAAGAGCTGCAGCAGGAGCAAAAGTGAAGTGGCTTCCCAACCCCATCTTGGAAAGAGAGGTAGCGGC
1950 TACACAGGAGAGGAGCATGGCTTGCAGGGGTAGGCCAAGAGAGAGAGCTCTGTGAGACATAGGCCCTCACCTGGAG
2025 AAGGGCTGCTGGCTGGCTGCACAGCTTGCAGGTGGCTGTATGGGGGAGAGTGAATTAATGTGAGATGTAC
2100 ACGACAAAAAAGAAAAAAGAAAAA

FIG. 11b

TRAF2	(mouse)	31	KYL C SACKNILRRPFOA QCGH N YCSFCILTSI LSS GPQNCACAYE
COPI	(<i>A. thaliana</i>)	49	DLL C PICMQIIKDAFLT ACGHSF C ymCIIITH LRN KSDCCPCSQH
EFP	(human)	10	ELS C SICILEPFKEPVTT PCGHNFGSCINETWA VQG SPYLL C PQCRAV
RAD-18	(<i>S. cerevisiae</i>)	25	LLRCH I CKDFLKVPLVT PCGHMP S LCIRTH LNN QPN C PLCLFE
UVS-2	(<i>N. crassa</i>)	31	APR C HVCKDVPDSEMLT SCNHPT S SLCIRRC LSV DSK CPLCRAT
RAG-1	(human)	290	SIS C QICEHILADPVET NCKHF C RVCIIRC LKV MGSYCPS C KYP
SS-A/Ro	(human)	13	EVT C PICLDPPVEPVSI ECGHSF C QECISQV GKG GGSVCAY C RQR
RING1	(human)	16	ELMC P ICLDMLKNTWTTKEC L HRFCSDCIYTA LRS GNKECP T CRKK
RPT-1	(mouse)	12	EVT C PICLELLKEPVSA DCNHSFCRACTITLVESNRWTDKGN C PVCRVP
RFP	(human)	13	ETT C PVICIQYFAEPFML DCGHN I CCACILRCWGTA ETNVSC P QCRET
c-cbl	(human)	378	FQL C KICAENDVKITE PCGHM C TSCLTS WQSESEQ GSGGC P FCRE
consensus	.		-----X11-12-----C-H-C-C-----X10-16-----C-C-----

APPROVED	O.G. FIG.	
By	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 12b

TRAF2	(mouse)	157	CPKRSLS CQH C RAPCSHVDLEV H YE V C
		182	PKFPLT CDG CG KKKIPRET FQD H VR A C
DG17	(<i>D. discoideum</i>)	171	GGFKLVT CD F CK RDDIKKKELET H YK T C
TFIIIA	(<i>X. laevis</i>)	189	QD LAV CD V C NRKFRHKDYLRD H QK T H
XLCOF14	(<i>X. laevis</i>)	1	TGKYPFI C SE CG KSFMDKRYLKI H SN V H
XFIN	(<i>X. laevis</i>)	1225	TGEKPYT CT V CG KKFIDRSSVVK H SR T H
ZFY1/2	(mouse)	521	RKKFPHI C GE CG KGFRHPSALKK H IR V H
MFG2	(mouse)	293	SEEKPF E C EE CG KKFRTARHLVK H QR I H
RAD18	(<i>S. cerevisiae</i>)	183	PNEQMAQ C PI C QQFYPLKALEKT H LD E C
UVS-2	(<i>N. crassa</i>)	182	PDDGLVA C PI CL TRM KEQQVDR H LDTS C

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

TRAF2 1 MAAASVTSPGSLLELLQPGFSKTLTGTRLEAKYLC SACKNILRRPFAQCG
 TRAF2 51 HRYCSFCLTSILSSGPONCAACVYEGLYEEGISILESSSAFPDNAARREV
 TRAF2 101 ESLPAVCPNDGCTWKGT LKEYESCHEGLCPFLLTECPACKGLVRLSEKEH
 TRAF1 1 MASSAPDENE FQFGCPPA
 TRAF2 151 HTEQECPKRSLSCOHCRAPCSHV DLEVHYEVCPKFPLTCDGC GKKKIPRE
 TRAF1 20 PCQDPSEPRVLCCTACLS ENLRD DEDRICPKCRADNLHPVSPG SPLITQE
 TRAF2 201 TFQDHVRACSKCRVL CRFHTVGCSEMVETENL QDHELQRLREHLA LLLSS
 TRAF1 69 KVHSDV... AEAEIMC PFAGVGCSEFKGSPQSM QEH EATSQSS HLY LLLAV
 TRAF2 251 FLEAQA SPGTLNQVG PELLQR
 TRAF1 116 LKEWKS SPGSLNLSA PMALERNLSELQLQA AVEATGDLEVDCYRAPCCES
 TRAF2 272 CQILEQKIAT FENIVCVLNREVERVAVTAE ACSRQH
 TRAF1 166 QEELALQHLVKEKLLAQ LEEKLRVFANIVA VLNKEVEASHLALA ASIHQS
 TRAF2 308 RLDQDKIEAL SNKVQQLERSIGL KD LAMADLE QKVSEL EVSTY DGVFIWK
 TRAF1 216 QLDREHLLSLEQRVVEL QQT LAQKDQVLGKLE HSLRLME EASF DGTFLWK
 TRAF2 358 ISDFTRKRQEA VAGRTPAIFSPA FYTSRYGYKM CLR VYLN GDGT GRGTHL
 TRAF1 266 ITNVT KRCHESV CGRTVSL FSPA FYTAKYGYKL CLR LYLNGDGS GK KTHL
 TRAF2 408 SLFFVVMKGPNDALLQWPFNQKVTLM LLDHNNREHV IDAFRPDVTSS SFQ
 TRAF1 316 SLFIVIMRGEYDALLP WPFNRNKVTF MLLDQNNREH IDAFRPDLS SA SFQ
 TRAF2 458 RPVSDMNI ASGCPLFC PVSKME AKNSYVRDDAIFIKAI VDLTGL
 TRAF1 366 RPQSETNV ASGCPLFFPLSKLQSPKHAYVKDDT MFLKCI VDTSA

FIG. 13

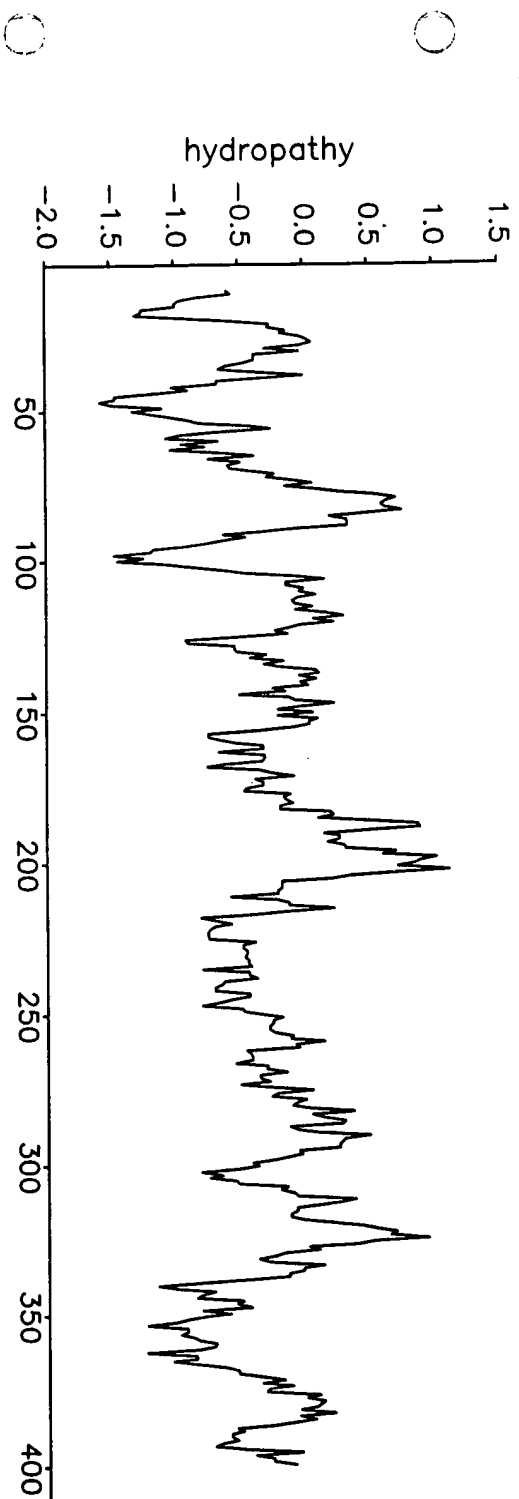


FIG. 14a

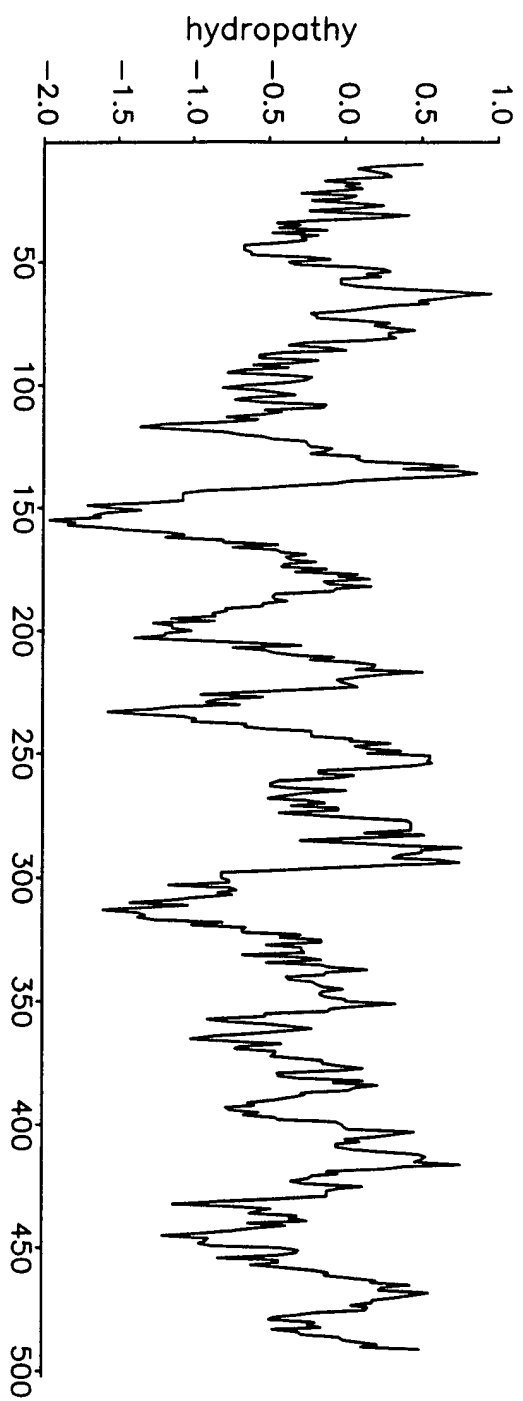


FIG. 14b

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 18a

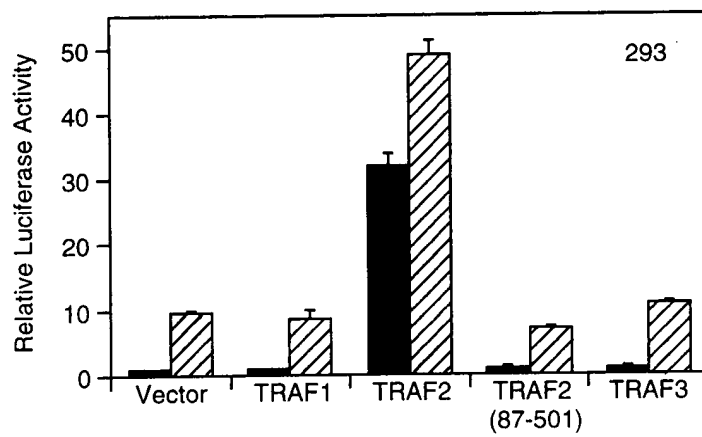
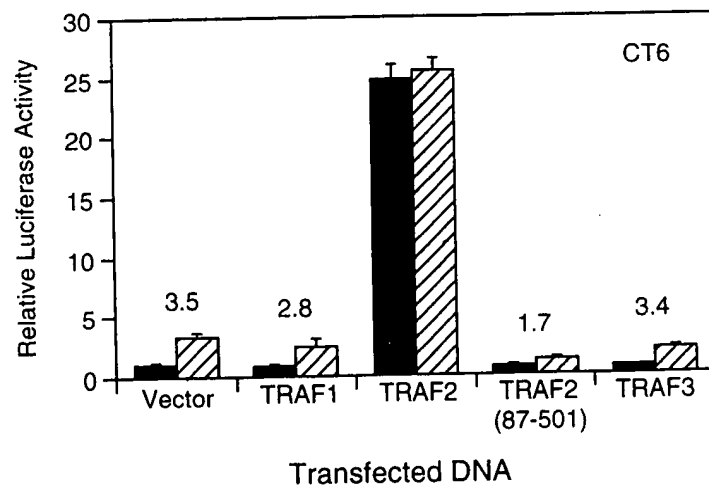


FIG. 18b



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 19a

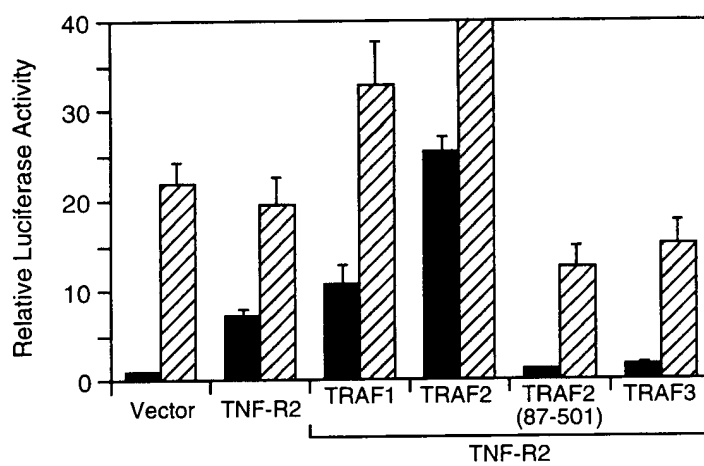
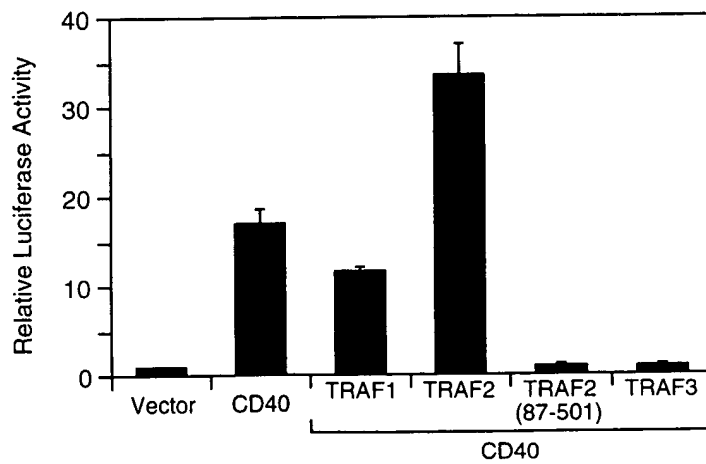


FIG. 19b



Transfected DNA

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

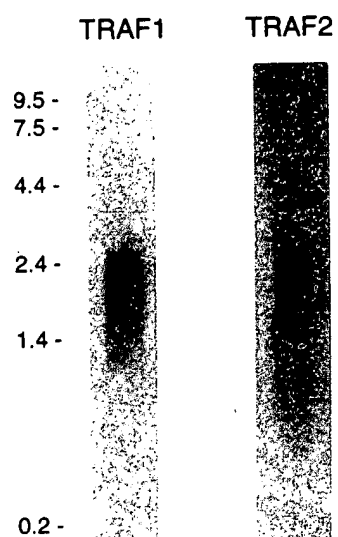


FIG. 15a

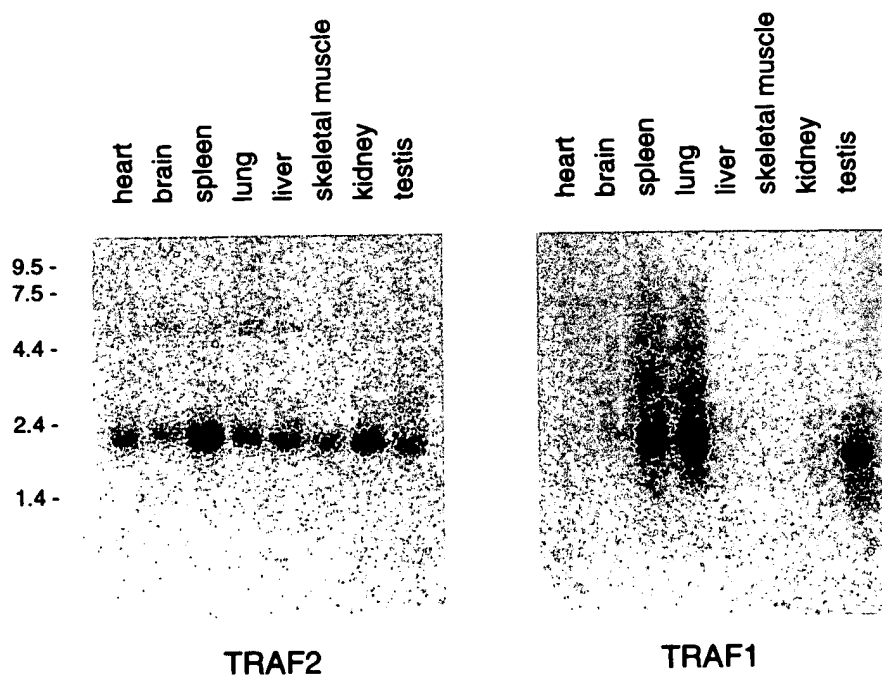


FIG. 15b

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

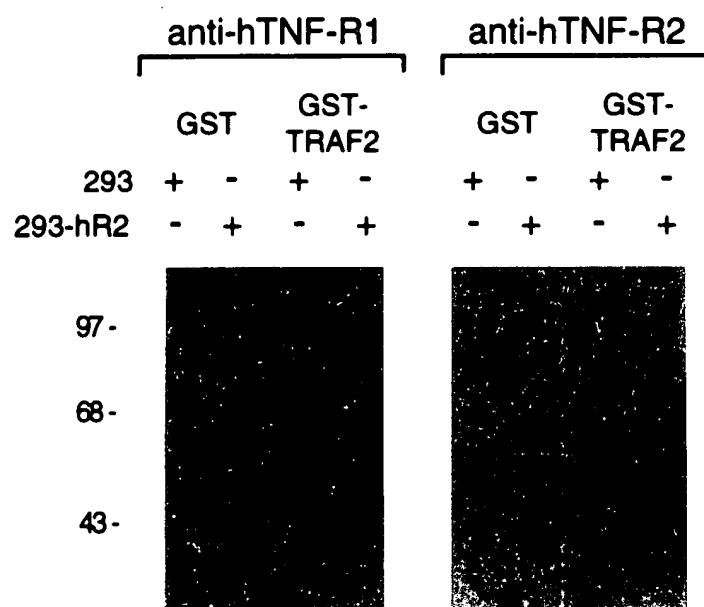
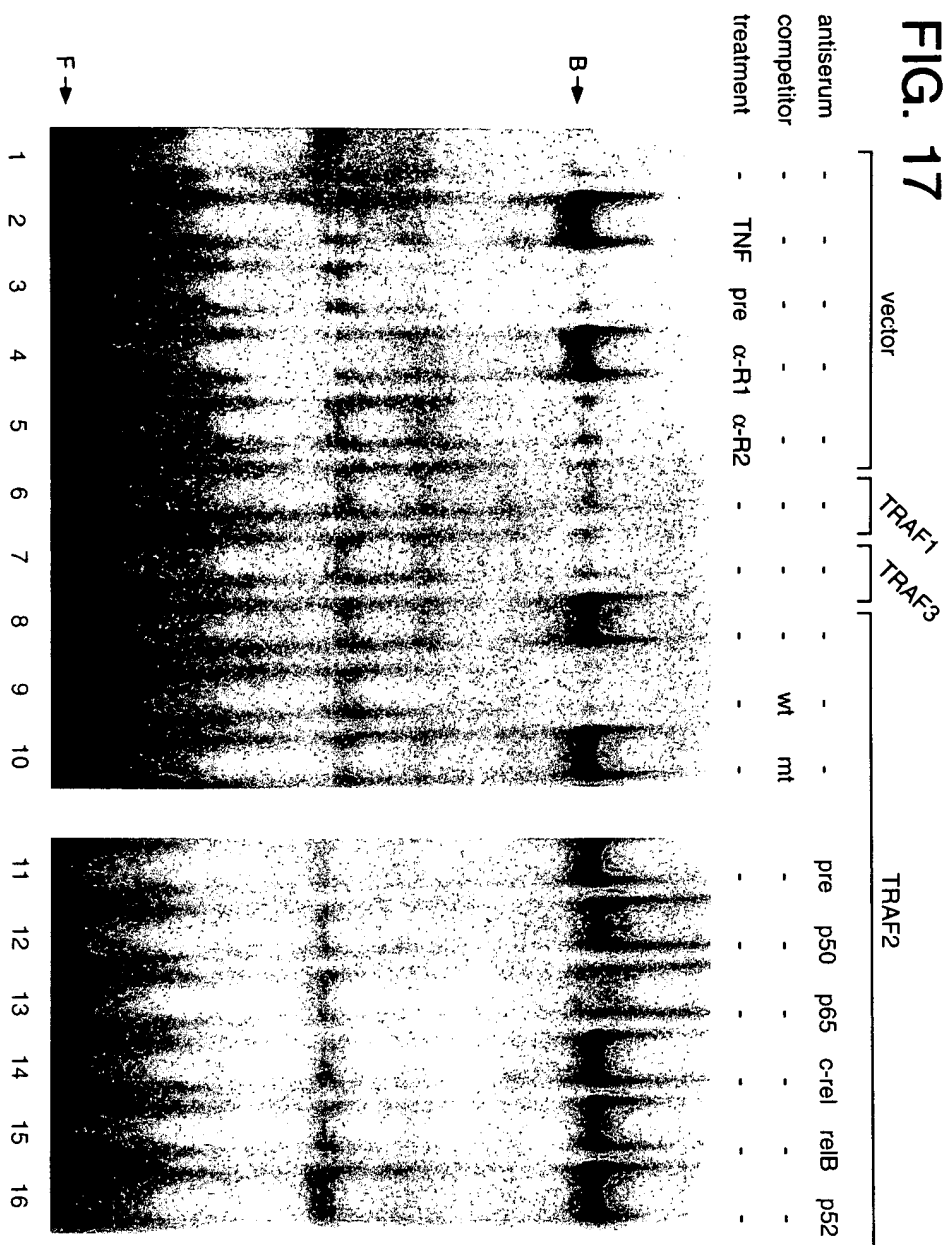


FIG. 16

FIG. 17



O.G. FIG.		APPROVED	DRAFT
CLASS	SUBCLASS		